

Impact of Lactobacillus plantarum Sortase on Target Protein Sorting, Gastrointestinal Persistence, and Host Immune Response Modulation

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Table S3: SDPs of *L. plantarum* WCFS1 as predicted by Boekhorst *et al.*

locus tag	cell wall sorting signal*	predicted function
lp_0197	KSAQQL LPQT SEQSMDWLMILGWFLGLTVVSR QRR FN	cell surface protein precursor, LPXTG-motif cell wall anchor
lp_0373	ILNQIL PKT NSAVATWLVLGVGLLLTVAITMVI KKRGRD	cell surface protein precursor, LPXTG-motif cell wall anchor
lp_0800	TTADTL LPQT GERDRSAQQGAVVLGLTGLLGLMGL RRRH THED	cell surface protein precursor, LPXTG-motif cell wall anchor
lp_0923	AQATAL LPQT DEKQSASLTVVGLLAAGFSLLGLT KLKRRA	cell surface protein precursor, LPXTG-motif cell wall anchor
lp_0946	EHSAQL LPQT DEQTGKLAVILGLLSVVTGLGFY GKNRQS	mucus-binding protein, LPXTG-motif cell wall anchor
lp_1124	KATTEL LPQT DETTQSWLATLGTSLALATGIWAQV RRR FN	cell surface hydrolase, LPXTG-motif cell wall anchor
lp_1229	FVGQRL LPQT NETDQQHMTLSGLLLLAMSGLLGLLGMA KRQHKE	mannose-specific adhesin, LPXTG-motif cell wall anchor
lp_1428	SKTVTL LPQT SENHQSLILAILGLALLLMLVWLP AK	hypothetical protein
lp_1447	PDQSVL LPQT NEARQLLVWLGLLTAILAGWLVLWM QRRRE	cell surface protein precursor, CscD family,LPXTG-motif cell wall anchor
lp_1643	HKQATL LPQT NDDRQASVAAELLGLTAATLLVGVSAIL KKRHN	mucus-binding protein precursor, LPXTG-motif cell wall anchor
lp_2486	SDAKTL LPQT DEDENGTALAVLGLSTLLMGSAFYGV SRRKHEA	mucus-binding protein, LPXTG-motif cell wall anchor
lp_2578	YNHGT LPQT SEKQSPIWVIFAGLLGLLIAAVGIGY RRRA	cell surface adherence protein,collagen-binding domain, LPXTG-motif cell wall anchor
lp_2588	PMNKSL LPQT NEHSASWSVAIGLALLIGLLGSAFVLT RRTKHRHS	cell surface adherence protein,collagen-binding domain, LPXTG-motif cell wall anchor
lp_2795	LGTSAL LPQT GEAPSRANVMGTVLLGLTMFGSWLGF RRVKRH	cell surface protein precursor, LPXTG-motif cell wall anchor
lp_2796	SVAGEL LPQT SEQVNRFGLLGLMMLMVTGLASIVGIG KRRQG	cell surface protein precursor, LPXTG-motif cell wall anchor
lp_2925	AKGQAL LPQT DEAPSQMISLAGIALASTLVLGAAAV SRKRQY	cell surface protein precursor, LPXTG-motif cell wall anchor
lp_2940	TKTATL LPQT GEQTNRVLTVLGFVLLAATSLFGFS KQRRRHKT TD	cell surface protein precursor, LPXTG-motif cell wall anchor
lp_2958	NQVAKL LPQT NEAKMDSQAL RS VGILLGVLTLLGGGAL IRHWF LATGR LPQT GVQANHYYQWLGFLLMALLLGWQVL KLMRERGAN	cell surface protein precursor, LPXTG-motif cell wall anchor
lp_2976	T	cell surface protein precursor, CscD family,LPXTG-motif cell wall anchor
lp_3001	HGSGWL LPQT GEAVQRWLAVAGGVFLMLTGAIAVWW RRKRA	cell surface protein precursor, LPXTG-motif cell wall anchor
lp_3059	HRMTTL LPQT DEQNTQLSLLGMIGLALSSILGWL KIKSRD RNGQQL LPQT SERLVIGSILGGMGLLASVLAGALY RILKRQDGGERN	adherence-associated mucus-binding protein,LPXTG-motif cell wall anchor
lp_3065	A	cell surface protein precursor, CscD family,LPXTG-motif cell wall anchor
lp_3074	QNPGWL LPQT SEQWWLSAFIGGIGLLVVLIGWQLVNYL KKRSSLS	cell surface protein precursor, CscD family,LPXTG-motif cell wall anchor
lp_3114	DTTSRL LPQT GETRWSEMAAETLGLTLATLLLGFGGL KRRRHEK	mucus-binding protein, LPXTG-motif cell wall anchor
lp_3127	HNSGQL LPQT SEQSEHGATLGILAAALFTGLGWGLAA KFKKRE	mucus-binding protein, LPXTG-motif cell wall anchor
lp_3454	PLQGV LPQM NGTQQWILFGIGVCGLSLLILLILIWW RNRQTIKEQP K	cell surface protein (putative)
lp_3677	KGY YQLPQT DEQLLTWIFYASFGSVLLILLMVIR WFN KESYC	cell surface protein precursor, CscD family,LPXTG-motif cell wall anchor

*sorting signal: the amino acid sequence of the protein, starting 5 residues N-terminal of the main sortase recognitions site. The main recognition site is indicated in blue, positively charged residues are indicated in red.

bold lp_numbers represent genes that have previously been identified to be *in vivo* induced in the gastrointestinal tract of mice and men by Marco *et al.* (ISME J. 2010 Nov;4(11):1481-4)